What is claimed is:

- 1 A light emitting apparatus, comprising:
- a light source section comprising a solid-state light
- 3 emitting element;
- a power supply section that supplies power to the light
- 5 source section;
- a reflection section that is disposed opposite to a light
- 7 extraction surface of the light source section to reflect light
- 8 emitted from the light source section; and
- 9 a heat radiation section that is disposed with a heat
- 10 radiation width in a back direction of the light source section.
- 2. A light emitting apparatus, comprising:
- a light source section comprising a solid-state light
- 3 emitting element;
- a power supply section that supplies power to the light
- 5 source section;
- a reflection section that is disposed opposite to a light
- 7 extraction surface of the light source section to reflect light
- 8 emitted from the light source section;
- 9 a heat radiation section that is disposed with a heat
- 10 radiation width in a back direction of the light source section;
- 11 and
- a case in which the reflection section and the radiation
- 13 section are placed and which externally radiates heat to be
- 14 transferred from the heat radiation section.
 - 3. The light emitting apparatus according to claim 2,

- 2 wherein:
- 3 the heat radiation section is of the same material as the
- 4 case.
- 4. The light emitting apparatus according to claim 1 or
- 2 2, wherein:
- 3 the light source section is packaged such that the
- 4 solid-state light emitting element is sealed with a light
- 5 transmitting material.
- 5. The light emitting apparatus according to any one of
- 2 claims 1 to 4, wherein:
- 3 the light source section comprises the solid-state light
- 4 emitting element that is flip-chip mounted on a inorganic
- 5 material board on which a conductive pattern is formed to supply
- 6 power to the solid-state light emitting element, and the light
- 7 source section is sealed with an inorganic seal material that
- 8 has a thermal expansion coefficient nearly equal to that of the
- 9 inorganic material board.
- 6. The light emitting apparatus according to claim 5,
- 2 wherein:
- 3 the inorganic seal material is of glass.
- 7. The light emitting apparatus according to claim 5 or
- 2 6, wherein:
- 3 the inorganic material board seals the light emitting
- 4 element while bonding in chemical reaction to the inorganic seal
- 5 material.

- 8. The light emitting apparatus according to any one of
- 2 claims 1 to 7, wherein:
- 3 the solid-state light emitting element is sealed with the
- 4 inorganic seal material with a refractive index of 1.55 or more.
- 9. The light emitting apparatus according to claim 2 or
- 2 3, wherein:
- 3 the case comprises a high reflectivity surface to reflect
- 4 the light.
- 1 10. The light emitting apparatus according to claim 2 or
- 2 3, wherein:
- 3 the case comprises a surface that is subjected to a
- 4 finishing to increase its heat radiation area.
- 1 11. The light emitting apparatus according to any one of
- 2 claims 1 to 10, wherein:
- 3 the heat radiation section comprises a heat radiation
- 4 plate that comprises a high reflectivity surface to reflect the
- 5 light.
- 1 12. The light emitting apparatus according to any one of
- 2 claims 1 to 11, wherein:
- 3 the heat radiation section comprises a heat radiation
- 4 support that is of a high thermal conductivity material and
- 5 transfers to the heat radiation section heat generated from the
- 6 light source section, and a heat radiation plate that transfers
- 7 the heat through the heat radiation support.

- 1 13. A light emitting apparatus, comprising:
- a light source section comprising a solid-state light
- 3 emitting element;
- a power supply section that supplies power to the light
- 5 source section;
- a reflection section that is disposed opposite to a light
- 7 extraction surface of the light source section to reflect light
- 8 emitted from the light source section; and
- 9 a heat radiation section that is disposed with a heat
- 10 radiation width in a back direction of the light source section,
- wherein the power supply section is formed with a width
- 12 in the back direction of the light source section.
 - 1 14. The light emitting apparatus according to any one of
 - 2 claims 1 to 13, wherein:
 - 3 the power supply section comprises a metallic thin film
 - 4 and is disposed with a width in the back direction of the light
 - 5 source section and is integrated with the heat radiation section
 - 6 while being insulated from the heat radiation section.
 - 1 15. The light emitting apparatus according to claim 14,
 - 2 wherein:
 - 3 the power supply section comprises a metallic thin film
 - 4 and is sandwiched through an insulator between a plurality of
 - 5 heat radiation plates to compose the heat radiation section.
- 1 16. The light emitting apparatus according to any one of
- 2 claims 1 to 15, wherein:

- 3 a spectrum light with plurality of region wavelengths is
- 4 radiated from the solid-state light emitting element or from
- 5 the periphery of the solid-state light emitting element.
- 1 17. The light emitting apparatus according to claim 16,
- 2 wherein:
- 3 a phosphor is disposed on the periphery of the solid-state
- 4 light emitting element.
- 1 18. The light emitting apparatus according to any one of
- 2 claims 1 to 17, wherein:
- 3 the heat radiation section has the heat radiation width
- 4 that is three times or more its thickness.
- 1 19. The light emitting apparatus according to any one of
- 2 claims 1 to 18, wherein:
- 3 the light source section including the solid-state light
- 4 emitting element has a width that is within five times that of
- 5 the solid-state light emitting element.
- 1 20. The light emitting apparatus according to any one of
- 2 claims 1 to 18, wherein:
- 3 the heat radiation section comprises a shape that
- 4 protrudes toward a bottom of the reflection surface.
- 1 21. The light emitting apparatus according to any one of
- 2 claims 1 to 20, wherein:
- 3 the reflection surface opposite to the light source
- 4 section comprises a solid angle of 2π to 3.4π strad.

- 1 22. The light emitting apparatus according to any one of
- 2 claims 1 to 21, wherein:
- 3 the light source section comprises a light source with
- 4 a turn-on power of 1W or more.
- 1 23. The light emitting apparatus according to any one of
- 2 claims 1 to 13, wherein:
- 3 the reflection section is of a resin material.
- 1 24. The light emitting apparatus according to any one of
- 2 claims 1 to 22, wherein:
- 3 the light source section comprises a plurality of
- 4 solid-state light emitting elements.
- 1 25. The light emitting apparatus according to any one of
- 2 claims 1 to 24, wherein:
- 3 the light emitting apparatus comprises a plurality of the
- 4 light source sections, and a plurality of the reflection sections
- 5 and the heat radiation sections corresponding to the plurality
- 6 of the light source sections.
- 1 26. The light emitting apparatus according to claim 25,
- 2 wherein:
- 3 the plurality of the light source sections generate a
- 4 plurality of emission colors.
- 1 27. The light emitting apparatus according to claim 26,
- 2 wherein:

- 3 the plurality of the light source sections generate
- 4 emission colors of R, G and B.